FM/MW/LW STEREO SYNTHESIZER TUNER

T-85/85L

SERVICE MANUAL

KENWOOD

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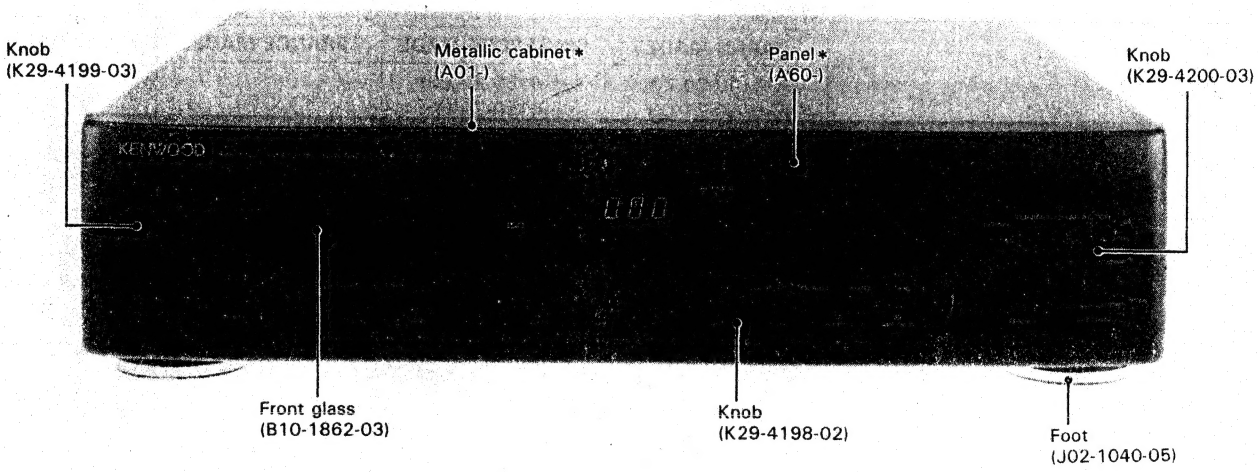
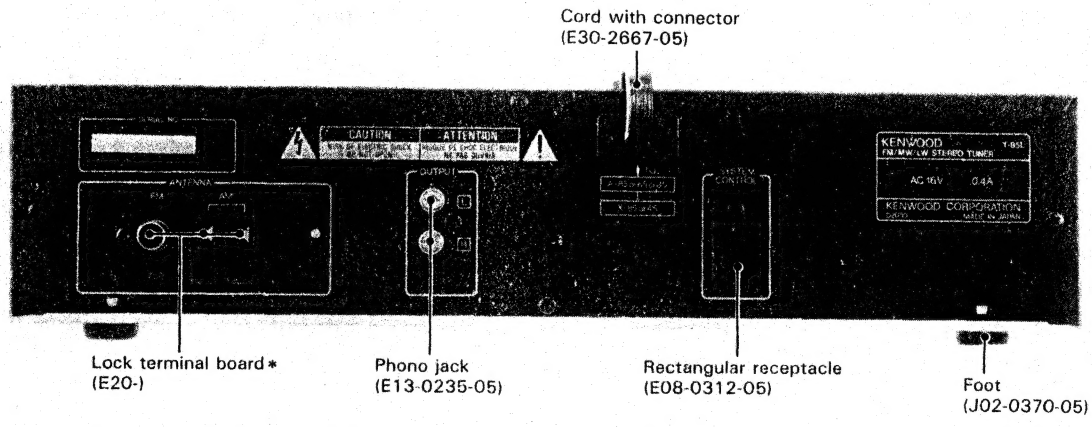
B51-4346-00(T)1816





T-85 and T-85L don't have a power supply transformer. Use A-45/65/85/ or RM-90PS power supply to supply power. If neither is available, adjust to operate as instructed on page 8.

When turning the power on, short the connector pin of CN201 (X05-B/2).

* Refer to Parts List on page 25.
Photo is T-85L.

T-85/85L

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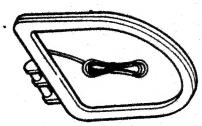
	JAPAN MADE	SINGAPORE MADE	FRANCE MADE
T-85	X05-4140-20 (M) X05-4140-71 (X)	X05-4150-20 (M) X05-4150-71 (X)	————
T-85L	X05-4142-71 (T,E)	X05-4152-71 (T,E)	X05-4142-72 (E)

The T-85 and T-85L are made in different countries. However, their circuits are identical.

Accessories

LOOP ANTENNA
(T90-0153-05): FRANCE MADE

LOOP ANTENNA
(T90-0173-05): JAPAN MADE
(T90-0174-05): SINGAPORE MADE

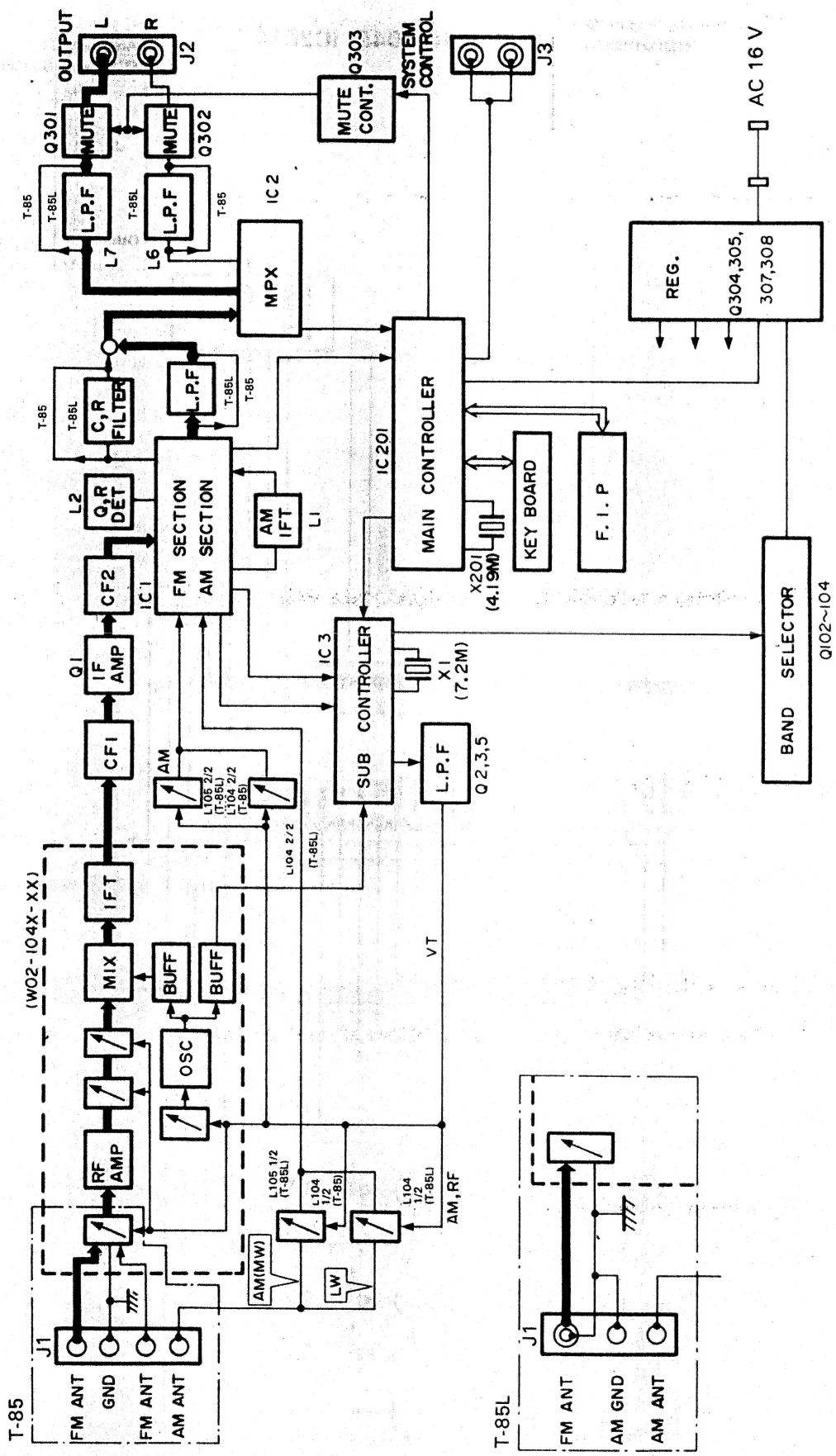


T TYPE ANTENNA
(T90-0176-05): JAPAN MADE
(T90-0176-05): FRANCE MADE
(T90-0175-05): SINGAPORE MADE

ANTENNA ADAPTOR
(T90-0177-05): (T-85L ONLY)

ANTENNA HOLDER
(J19-2815-04)

BLOCK DIAGRAM



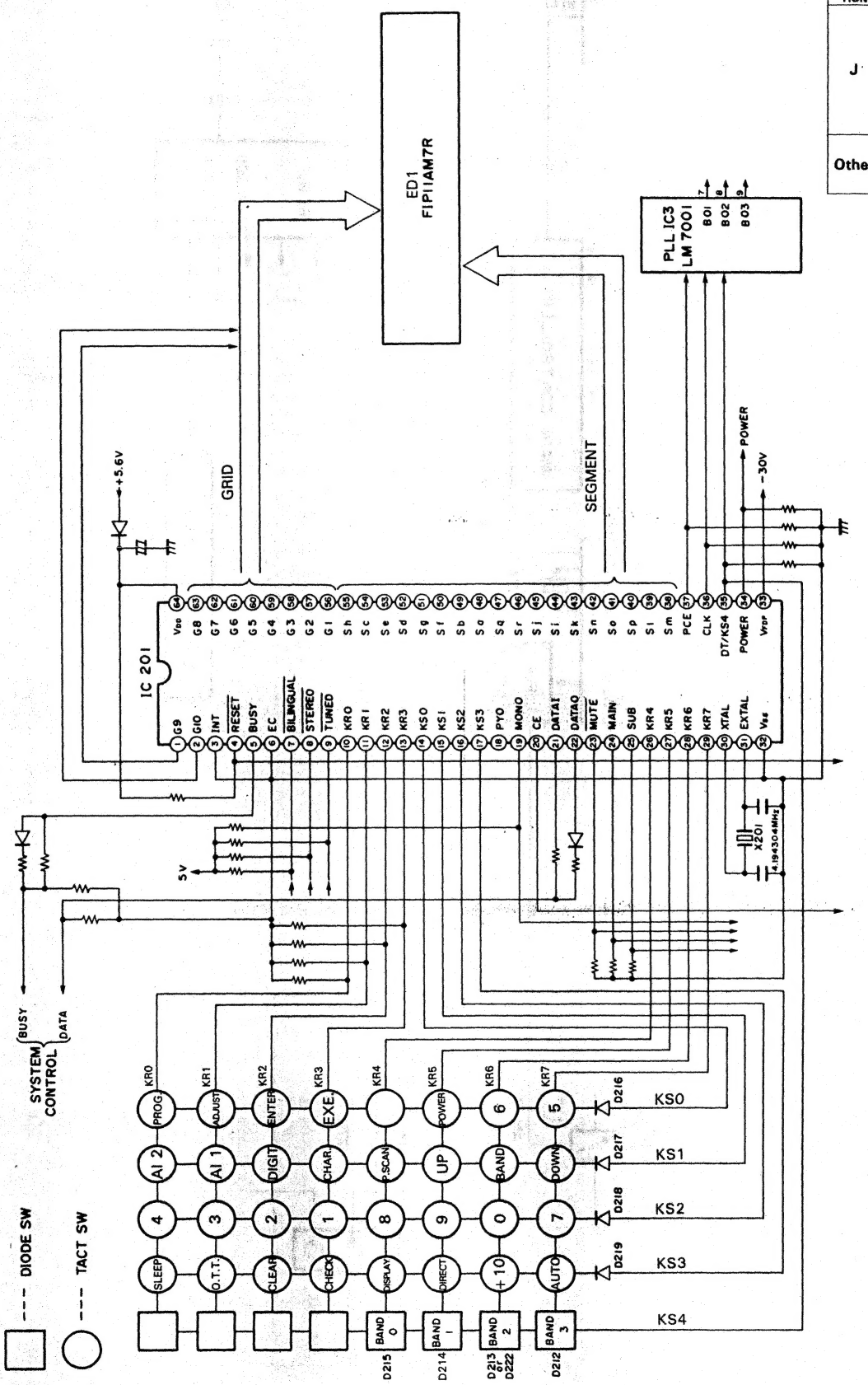
T-85/85L

CIRCUIT DESCRIPTION

Blockdiagram of surrounding microprocessor (CXP50216-104S: IC201)

BAND SELECT

DESTINATION	BAND	B01	B02	B03
J	FM	L	H	L
	AM	L	L	H
	VHF L	H	H	L
	VHF H	H	H	H
	UHF	H	L	L
Other	FM	H	H	L
	AM	H	L	H
	LW	L	H	H



CIRCUIT DESCRIPTION

Pin functions

Pin No.	Pin name	I/O	Name	Operation description	
1, 2	T1, T0	O	G9, G10	FL grid output 9G, 10G	
3	INT	I		No use (GND)	
4	RST	I	$\overline{\text{RESET}}$	Reset input	H: NORMAL L: RESET
5	ADI/PB3	I/O	BUSY	System control BUSY input/output	
6	EC	I		No use (GND)	
7	SC/PX0	I	$\overline{\text{BIL}}$	BILINGUAL	H: NORMAL L: BILINGUAL
8	SO/PX1	I	$\overline{\text{STEREO}}$	Stereo signal input	H: MONO L: STEREO
9	SI/PX2	I	$\overline{\text{TUNED}}$	Tuning signal input	H: NO L: TUNED
10~13	PF0~PF3	I	KR0~KR3	Key return input	H: ON L: OFF
14~17	PE0~PE3	O	KS0~KS3	Key scan output	H: ON L: OFF
18	PY0	O		No use (OPEN)	
19	PWM/PY1	O	MONO	Forced MONO output	H: MONO L: STEREO
20	WP/PY2	I	CE	AC OFF detection input	H: AC ON L: AC OFF
21	RMC/PY3	I	DATAI	System control DATA input	
22	PD0	O	DATAO	System control DATA output	
23	PD1	O	$\overline{\text{MUTE}}$	Line mute	H: MUTE OFF L: MUTE ON
24	PD2	O	MAIN	No use	
25	PD3	O	SUB	No use	
26~29	PC0~PC3	I	KR4~KR7	Key return input	H: ON L: OFF
30	XTAL			Quartz oscillator 4.194304MHz	
31	EXTAL			Quartz oscillator 4.194304MHz	
32	V_{SS}			GND pin	
33	V_{FDP}			−30 V	
34	PH0/S0	O	POWER	POWER ON/OFF control	H: ON L: OFF
35	PH1/S1	O	DT/KS4	PLL DATA output Key scan output for destination SW	
36	PH2/S2	O	CLK	PLL CLOCK output	
37	PH3/S3	O	PCE	PLL CE output	
38~55	PG0/S4~S23/T8	O	Sm~Sh	FL segment output (m, l, p, o, n, k, i, j, r, q, a, b, f, g, d, e, c, h)	
56~63	S22/T9~T2	O	G1~G8	FL grid output 1G~8G	
64	V_{DD}			+5 V (Power supply)	

T-85/85L

CIRCUIT DESCRIPTION

Test mode

(1) Method of setting
While pressing the DOWN key, turn AC ON.

(2) Contents
Power ON
FLL all lit
Test frequency setting (Table 1)

(3) Method of canceling
Clearing the FL all lit state is performed by numeral key, BAND key, UP/DOWN key or POWER key.

Initial status setting (reset)

(1) Method
While pressing the ENTER key, turn AC ON.

(2) Contents
The all memory is cleared and the initial status is fully restored. At this time, however, test frequency is newly memorized in the preset memory. (Table 1)

Destination / Preset channel	T-85				T-85L	
	J TYPE		M, X TYPE		T, E TYPE	
01ch	FM	83.5 MHz	FM	98.0 MHz	FM	98.0 MHz
02ch	FM	90.0 MHz	FM	108.0 MHz	FM	108.0 MHz
03ch	AM	630 kHz	AM	630 kHz	AM	630 kHz
04ch	AM	990 kHz	AM	990 kHz	AM	990 kHz
05ch	AM	1440 kHz	AM	1440 kHz	AM	1440 kHz
06ch	AM	1602 kHz	AM (AM	1602 kHz 1610 kHz)	AM	1602 kHz
07ch	TV	3 ch	FM	87.5 MHz	LW	162 kHz
08ch	TV	8 ch	FM	87.5 MHz	LW	216 kHz
09ch	TV	35 ch	FM	87.5 MHz	LW	270 kHz
10ch	FM	89.1 MHz	FM	89.1 MHz	FM	89.1 MHz
11ch	TV	1 ch	FM	87.5 MHz	LW	281 kHz
12ch	TV	3 ch	FM	87.5 MHz	FM	87.5 MHz
13ch	TV	4 ch	FM	87.5 MHz	FM	87.5 MHz
14ch	TV	8 ch	FM	87.5 MHz	FM	87.5 MHz
15ch	TV	12 ch	FM	87.5 MHz	FM	87.5 MHz
16ch	TV	13 ch	FM	87.5 MHz	FM	87.5 MHz
17ch	TV	35 ch	FM	87.5 MHz	FM	87.5 MHz
18ch	TV	62 ch	FM	87.5 MHz	FM	87.5 MHz
19ch	FM	76.0 MHz	FM	87.5 MHz	FM	87.5 MHz
20ch ~ 30ch	FM	76.0 MHz	FM	87.5 MHz	FM	87.5 MHz

(Table 1)

Conditions by destination

Destination type		Destination switches B3	B2	B1	B0	Band	Receiving frequency range	Inter-channel space	Intermediate frequency	PLL reference frequency
T-85	J	0	0	0	0	FM	76.0 ~ 90.0 MHz	100 kHz	− 10.75 MHz	25 kHz
						AM	531 ~ 1602 kHz	9 kHz	+ 450 kHz	9 kHz
						TV	1 ~ 62ch	6 MHz	− 10.75 MHz	25 kHz
	M	1	1 or 0	1	0	FM	87.5 ~ 108.0 MHz	100 kHz /50 kHz	+ 10.7 MHz	50 kHz
						AM	531 ~ 1602 kHz or 530 ~ 1610 kHz	9 kHz or 10 kHz	+ 450 kHz	10 kHz
	K,P	1	0	0	0	FM	87.5 ~ 108.0 MHz	100 kHz	+ 10.7 MHz	50 kHz
						AM	530 ~ 1700 kHz	10 kHz	+ 450 kHz	10 kHz
	X	1	1	0	0	FM	87.5 ~ 108.0 MHz	50 kHz	+ 10.7 MHz	50 kHz
						AM	531 ~ 1602 kHz	9 kHz	+ 450 kHz	9 kHz
T-85L	T,E	1	1	0	1	FM	87.5 ~ 108.0 MHz	50 kHz	+ 10.7 MHz	50 kHz
						MW	531 ~ 1602 kHz	9 kHz	+ 450 kHz	9 kHz
						LW	153 ~ 281 kHz	1 kHz	+ 450 kHz	1 kHz

ADJUSTMENT

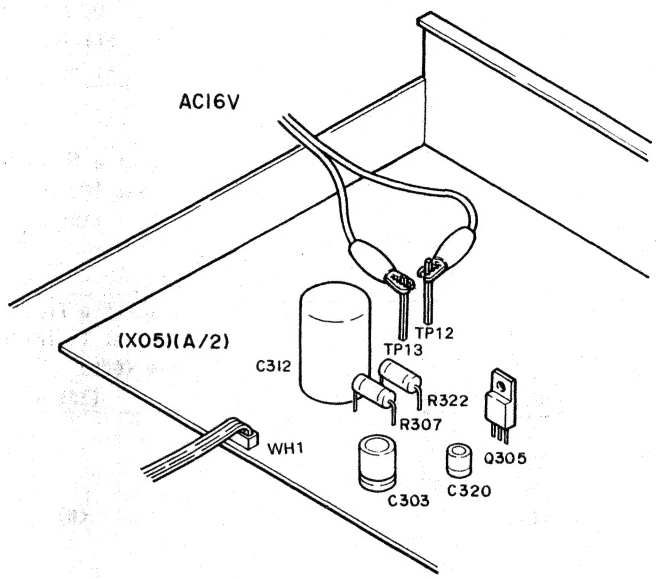
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION			SELECTOR: FM				
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±75kHz dev (M,X type) 1kHz, ±40kHz dev (E,T type) 60dBμ (ANT input)	Connect a DC voltmeter between TP3 and TP4. (X05-)	AUTO or MONO 98.0MHz	L2 (X05-)	0V	(a)
2	VCO	(A) 98.0MHz 0 dev 60dBμ (ANT input)	Connect a frequency counter to TP5 and TP6 (GND). (X05-)	AUTO 98.0MHz	VR2 (X05-)	19.00kHz	(b)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev Pilot: ±7.5kHz dev (M,X type) 1kHz, ±40kHz dev Pilot: ±6kHz dev (E,T type) 60dBμ (ANT input)	(B)	MONO 98.0MHz	IFT (W02-)	Minimum distortion	
4	SEPARATION (E,T type only)	(C) 98.0MHz 1kHz, ±40kHz dev Pilot ±6kHz dev Selector: L or R 60dBμ (ANT input)	(B)	AUTO 98.0MHz	VR4 (X05-)	Minimum crosstalk	
5	TUNING LEVEL	(A) 98.0MHz 1kHz, ±75kHz dev (M,X type) 1kHz, ±45kHz dev (E,T type) 14dBμ(ANT input) 75Ω 18dBμ(ANT input)300Ω	(B)	AUTO or MONO 98.0MHz	VR1 (X05-)	Adjust VR1 and stop at the point where ED1(TUNED) goes on.	
AM (MW) SECTION			SELECTOR: AM(MW)				
(1)	TUNING LEVEL	(D) 1008kHz 400Hz, 30% mod 26dBμ(ANT input)	(B)	1008kHz	VR3 (X05-)	Adjust VR3 and stop at the point where ED1(TUNED) goes on.	

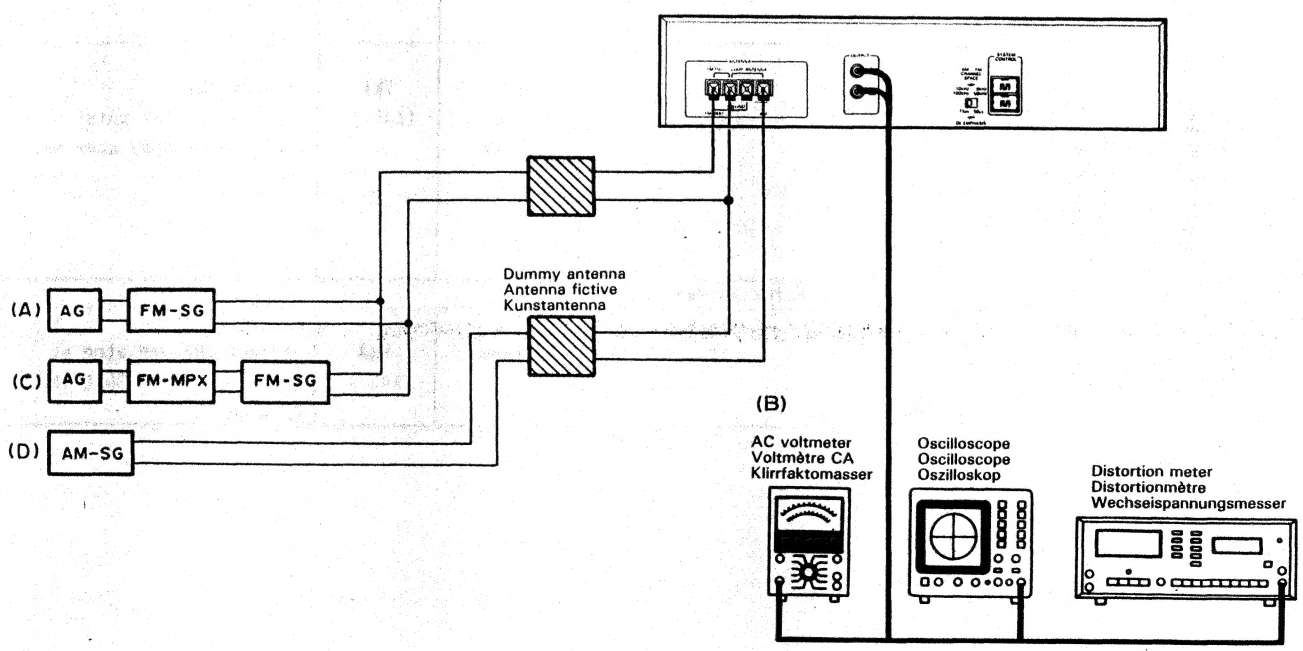
T-85/85L

ADJUSTMENT

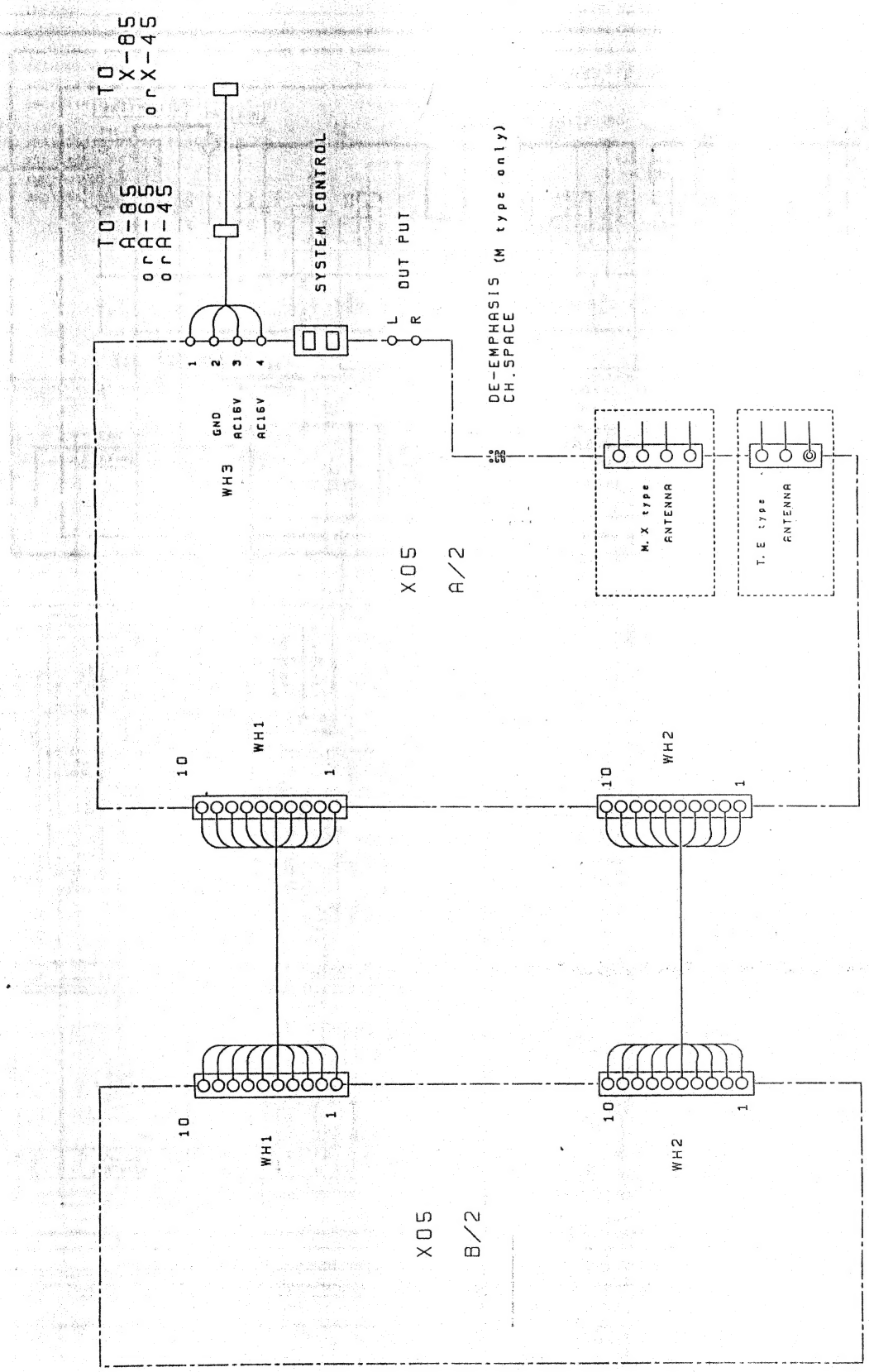
The T-85 and T-85L don't have a power transformer. Use A-45/65/85 or RM-90PS to supply power to the T-85/85L. If neither is available, apply AC 16 V to TP12 and TP13 of the tuner unit (X05, A/2).

When turning the power on, short the connector pin of CN 201 (X05-B/2).

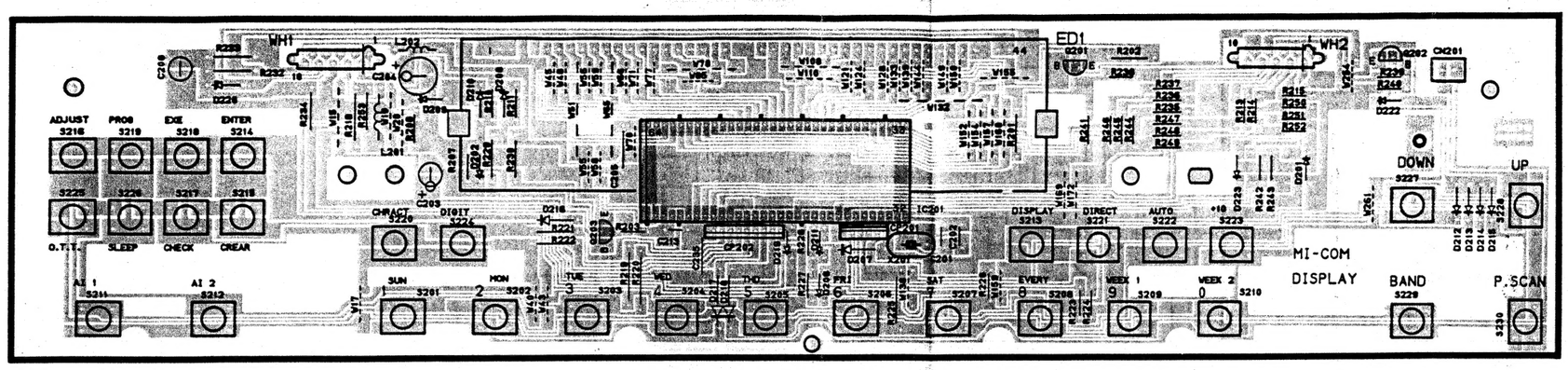


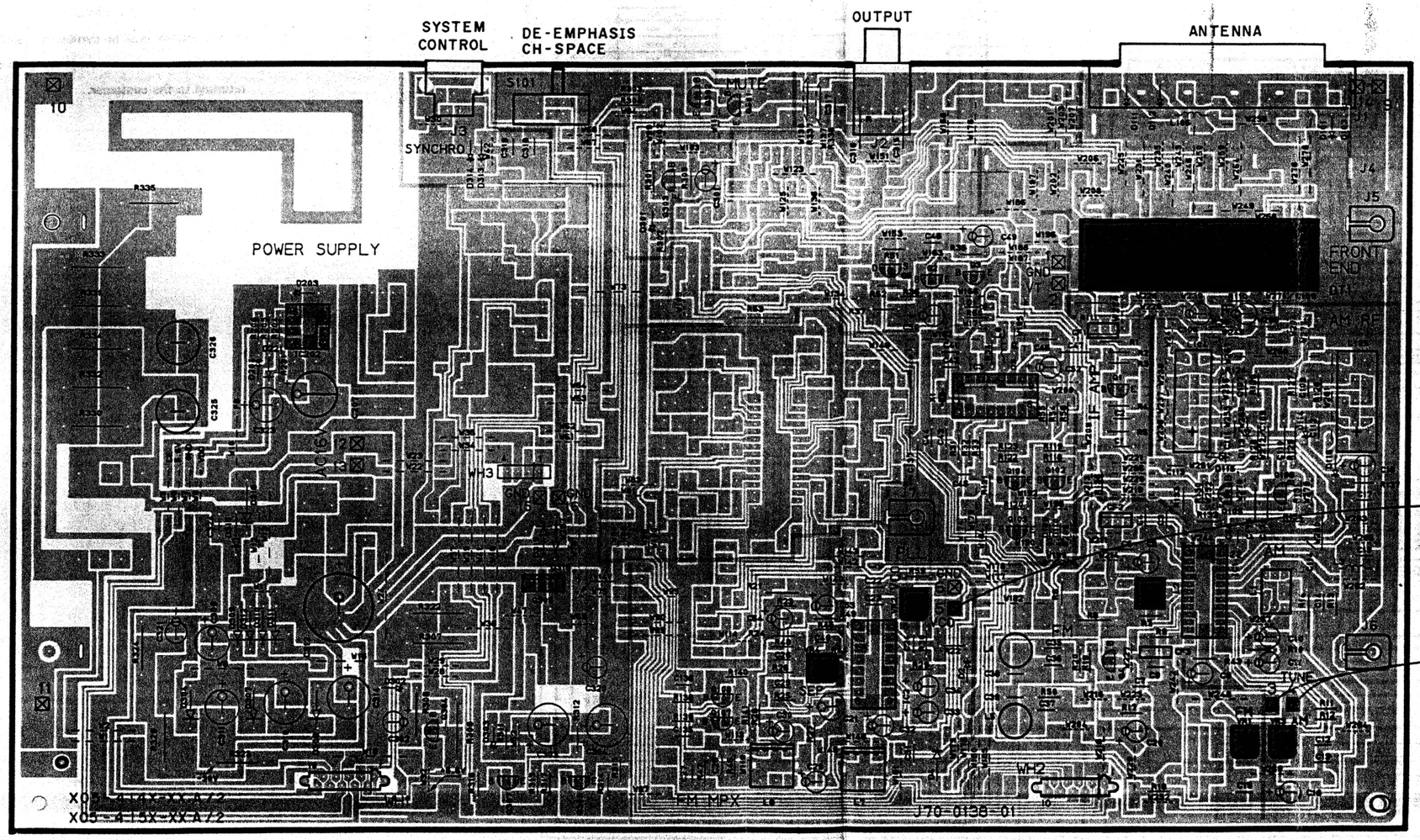


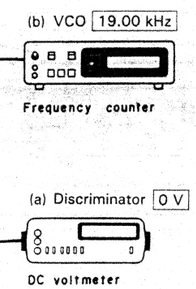
WIRING DIAGRAM



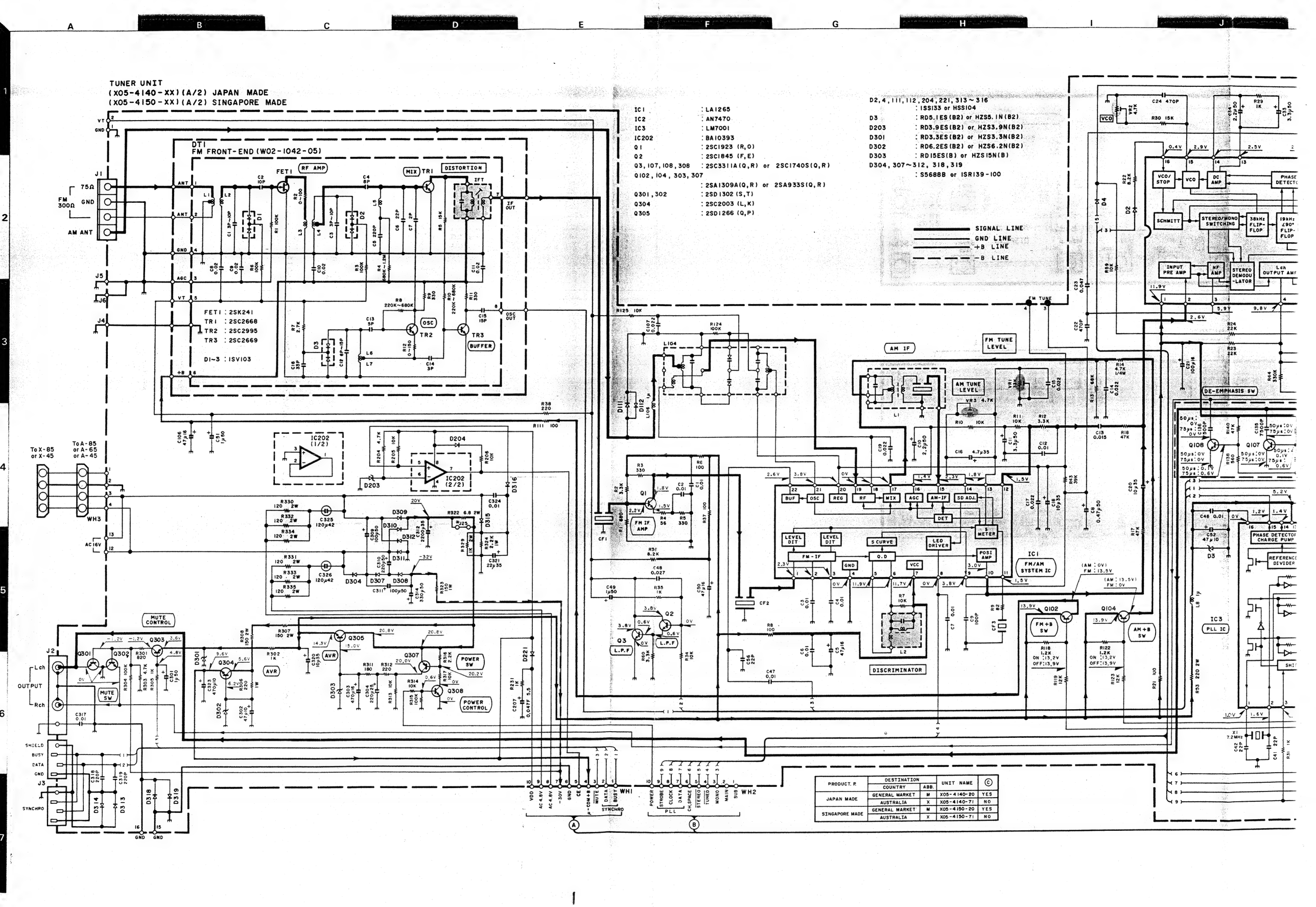
PC BOARD (Component side view)



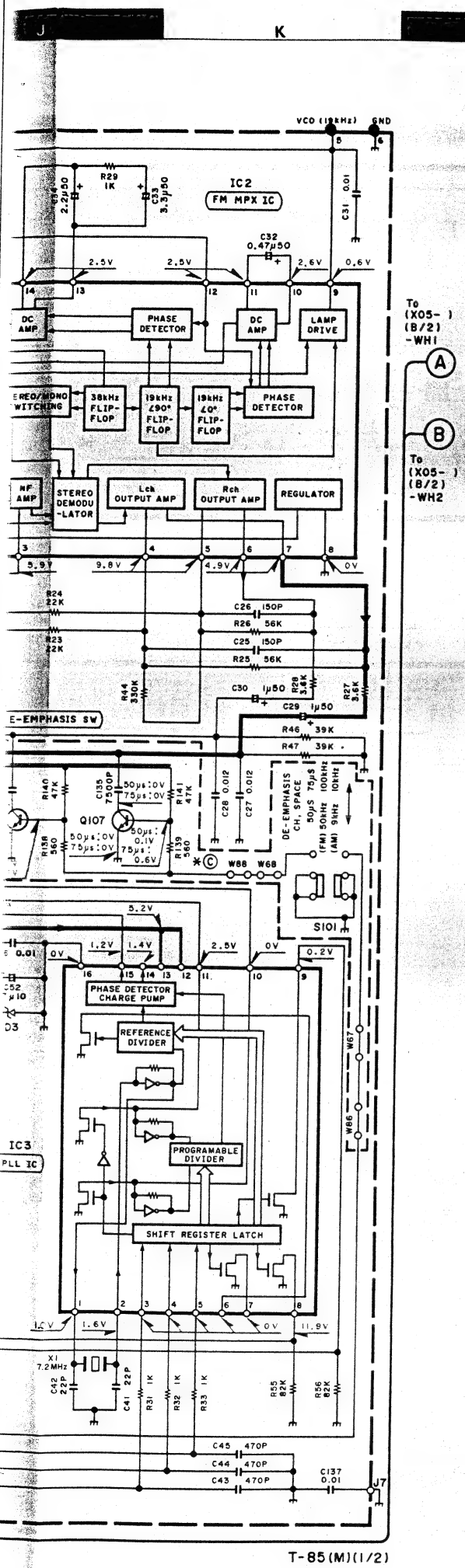




Refer to the schematic diagram for the values of resistors and capacitors.



PRODUCT. P.	DESTINATION		UNIT NAME	©
	COUNTRY	ABB.		
JAPAN MADE	GENERAL MARKET	M	X05-4140-20	YES
	AUSTRALIA	X	X05-4140-71	NO
SINGAPORE MADE	GENERAL MARKET	M	X05-4150-20	YES
	AUSTRALIA	X	X05-4150-71	NO



T-85(M)(1/2)

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y07-3462-71

T-85

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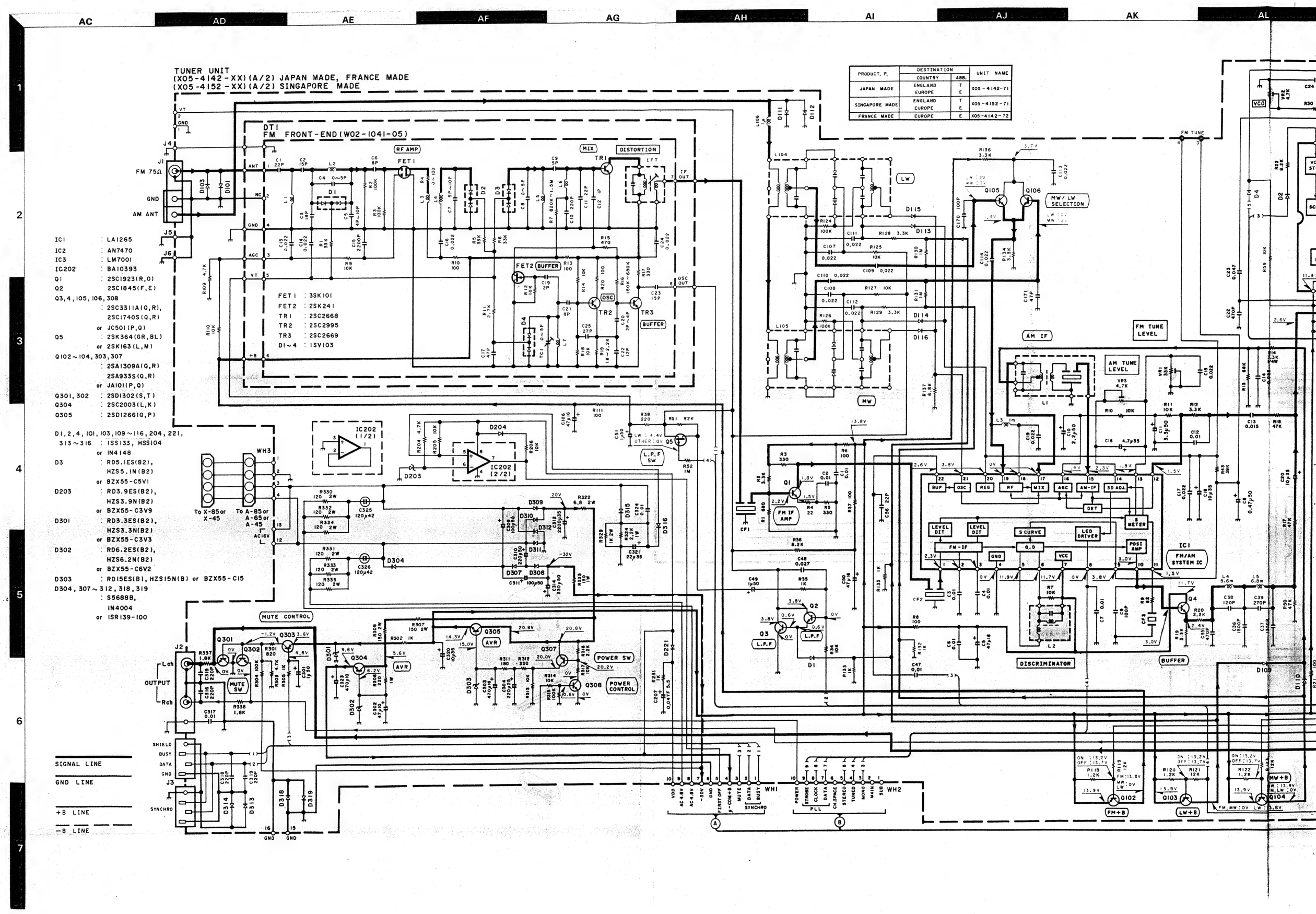
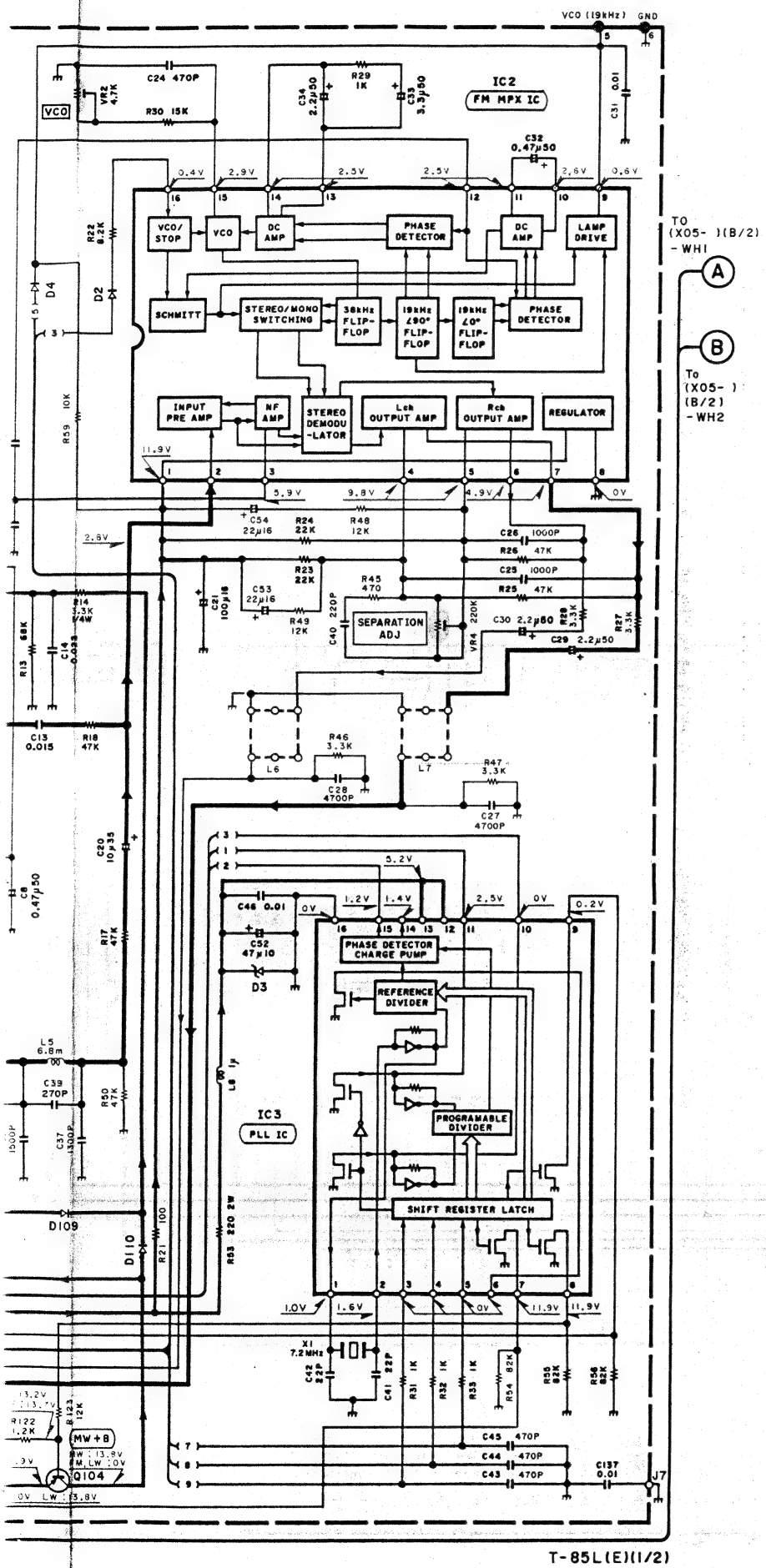


PRODUCT. P.	DESTINATION		UNIT NAME
	COUNTRY	ABB.	
JAPAN MADE	ENGLAND	T	X05-4142-71
	EUROPE	E	
SINGAPORE MADE	ENGLAND	T	X05-4152-71
	EUROPE	E	
FRANCE MADE	EUROPE	E	X05-4142-72



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Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

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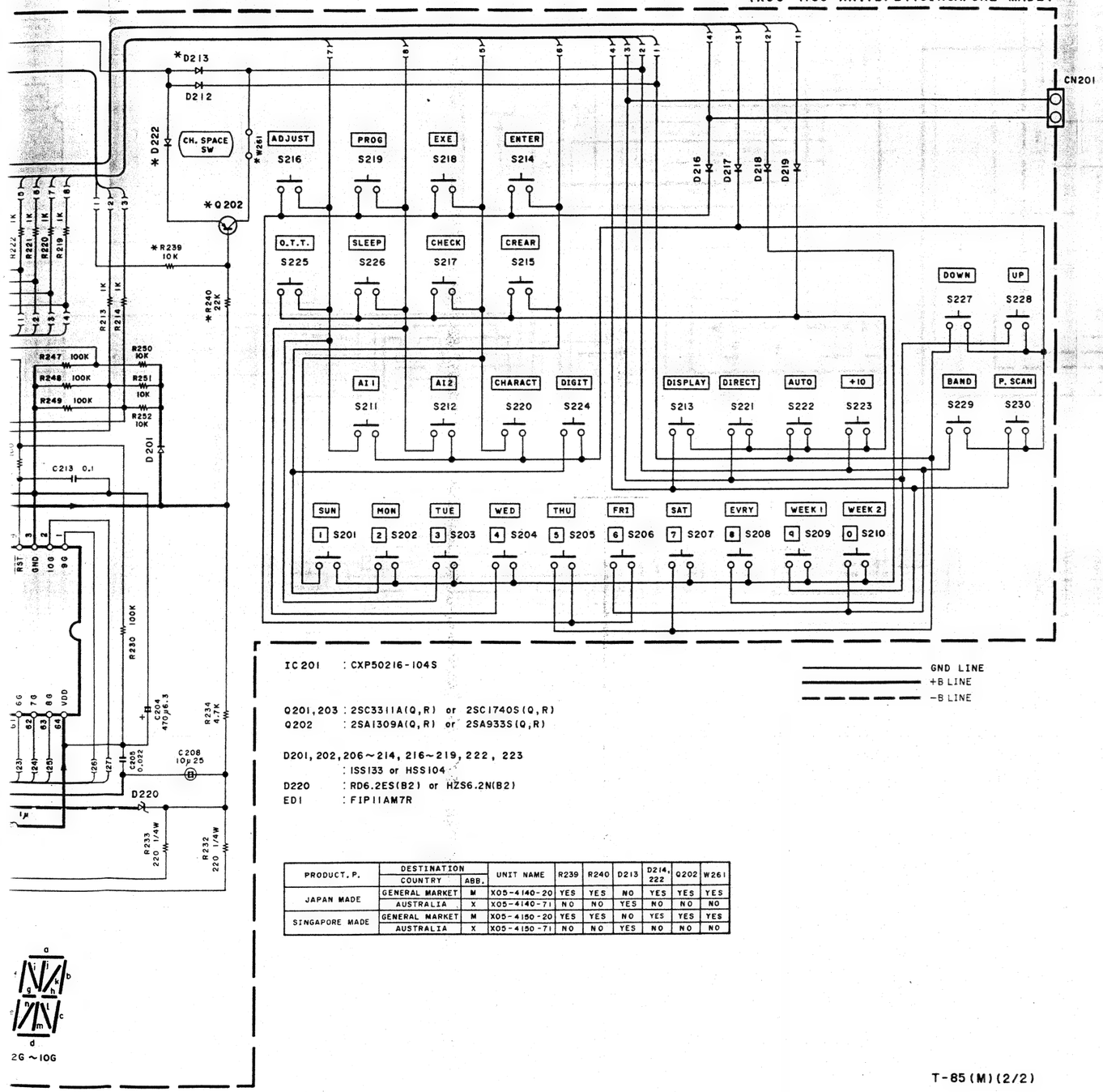
Y07-3462-71

T-85L

KENWOOD

IC 201
M-COM
PLL
VDD
VFDP
POWER
DATA (KS4)
CLOCK
STROBE
VSS
EXTAL
XTAL
MUTE
MAIN
SUB
CE
MONO
DATA(IN)
DATA(OUT)
KR7
KR6
KR5
KR4
KR3
KR2
KR1
KR0
KS0
KS1
KS2
KS3
TUNED
STEREO
BIL
GND
BUSY
RST
IOG
9G
X201
4.194304 MHz
C201 22P
C202 22P
C203 2.2μ 50
C213 0.1
C235 0.022
C207 0.022
R230 100K
R229 330
R203 100
R201 100K
R202 100K 1/4W
Q201
Q202
Q203
RESET
DRIVE
R207 100K
R208 100K
R227 330
R228 100K
R218 1K
R210 100K
R211 10K
R215 10K
R253 10K
R243 100K
R242 100K
R241 100K
R246 4.7K
R245 4.7K
R244 4.7K
R235 1K
R236 1K
R237 1K
R238 1K
R247 100K
R248 100K
R249 100K
R252 10K
R251 10K
R250 10K
R214 1K
R213 1K
R219 1K
R220 1K
R221 1K
R222 1K
R223 1K
R224 1K
R225 1K
R226 1K
CP201 47K×4
CP202 47K×8
D201
D202
D203
D206
D207
D208
D209
D210
D211
D223
L201 1μ
L202 1μ
EDI
AUTO
STEREO
TUNED
BILINGUAL
MAIN
SUB
AI TIMER
SLEEP
O.T.T.
MEMORY
SUN
MON
TUE
WED
THU
FRI
SAT
PROG.
TO (XO5-)(A/2) -WH1
TO (XO5-)(B/2) -WH2
WH1
SYNCHRO BUSY
SYNCHRO DATA
MUTE
μ-COM +B
CE
GND
-30V
AC 4.8V
AC 4.8V
VDD
WH2
SUB
MAIN
MONO
TUNED
STEREO
CH. SPACE
PLL DATA
PLL CLOCK
PLL STROBE
POWER

(X05-4140-XX)(B/2)(JAPAN MADE)
(X05-4150-XX)(B/2)(SINGAPORE MADE)



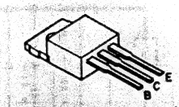
IC201 : CXP50216-104S

Q201,203 : 2SC3311A(Q,R) or 2SC1740S(Q,R)
Q202 : 2SA1309A(Q,R) or 2SA933S(Q,R)

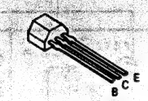
D201,202,206~214,216~219,222,223
: 1SS133 or HSS104
D220 : RD6.2ES(B2) or HZS6.2N(B2)
ED1 : FIP11AM7R

PRODUCT. P.	DESTINATION		UNIT NAME	R239	R240	D213	D214, 222	Q202	W261
	COUNTRY	ABB.							
JAPAN MADE	GENERAL MARKET	M	X05-4140-20	YES	YES	NO	YES	YES	YES
	AUSTRALIA	X	X05-4140-71	NO	NO	YES	NO	NO	NO
SINGAPORE MADE	GENERAL MARKET	M	X05-4150-20	YES	YES	NO	YES	YES	YES
	AUSTRALIA	X	X05-4150-71	NO	NO	YES	NO	NO	NO

JA101
JC501
2SC1845
2SC1923
2SC2003
2SD1302



2SD1266



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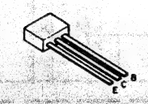
2SC1740S



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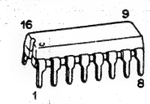
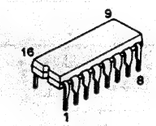
2SC3311A



LM7001



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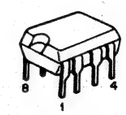

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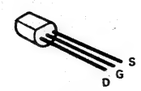
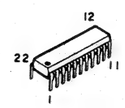


2SK163
2SK364



LA1265

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

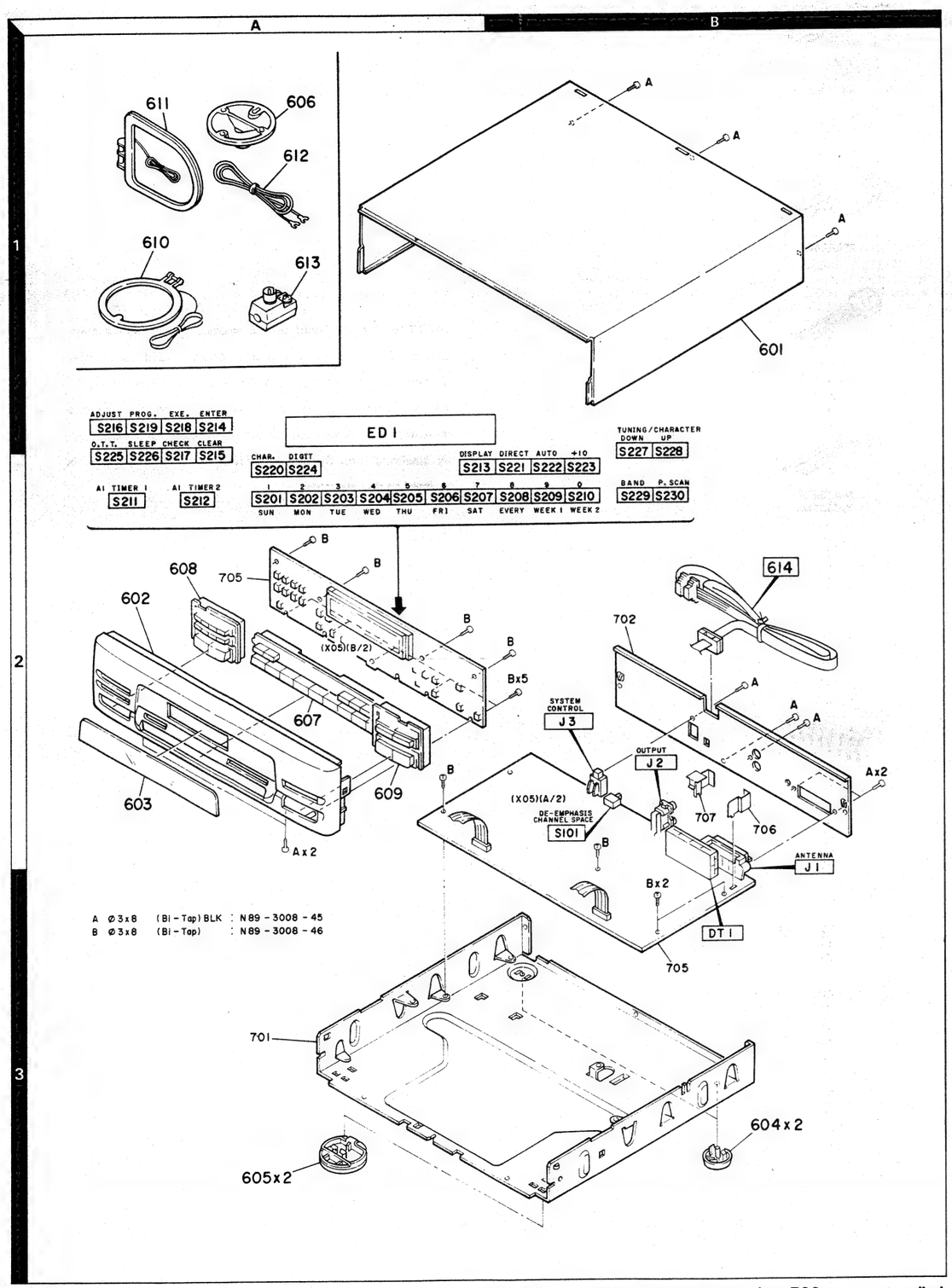
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y07-3462-71

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

No.2

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
-		*	H10-5158-02	POLYSTYRENE FOAMED FIXTURE(R)		
-		*	H25-0224-04	PROTECTION BAG (800X400X0.03)	E	
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)	E	
-		*	H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-		*	H25-0653-04	PROTECTION BAG (0224 PRINTED)	T	
-		*	H50-0118-04	ITEM CARTON CASE		
604	3B		J02-0370-05	FOOT(REAR)		
605	3A		J02-1040-05	FOOT(FRONT)		
606	1A		J19-2815-04	ANTENNA HOLDER		
607	2A	*	K29-4198-02	KNOB(CHAR.,DISPLAY,1-0)		
608	2A	*	K29-4199-03	KNOB(ADJUST,O.T.T.,AI TIMER 1)		
609	2A	*	K29-4200-03	KNOB(TUNING/CHARACTER,BAND)		
A			N89-3008-45	BINDING HEAD TAPTITE SCREW		
B			N89-3008-46	BINDING HEAD TAPTITE SCREW		
611	1A		T90-0173-05	LOOP ANTENNA		
611	1A		T90-0174-05	LOOP ANTENNA		
612	1A		T90-0176-05	T TYPE ANTENNA		
613	1A		T90-0177-05	ANTENNA ADAPTOR		
				T-85L (SINGAPORE MADE)		
601	1B	*	A01-1887-11	METALLIC CABINET		
602	2A	*	A60-0087-01	PANEL		
603	2A	*	B10-1862-03	FRONT GLASS	E	
-			B46-0122-13	WARRANTY CARD	T	
-			B46-0143-13	WARRANTY CARD		
-		*	H10-5224-02	POLYSTYRENE FOAMED FIXTURE(L)		
-		*	H10-5225-02	POLYSTYRENE FOAMED FIXTURE(R)		
-		*	H25-0224-04	PROTECTION BAG (800X400X0.03)	E	
-		*	H25-0232-04	PROTECTION BAG (235X350X0.03)	E	
-		*	H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-		*	H25-0653-04	PROTECTION BAG (0224 PRINTED)	T	
-		*	H50-0121-04	ITEM CARTON CASE	T	
-		*	H50-0122-04	ITEM CARTON CASE	E	
604	3B		J02-0370-05	FOOT(REAR)		
605	3A		J02-1040-05	FOOT(FRONT)		
606	1A		J19-2815-04	ANTENNA HOLDER		
607	2A	*	K29-4198-02	KNOB(CHAR.,DISPLAY,1-0)		
608	2A	*	K29-4199-03	KNOB(ADJUST,O.T.T.,AI TIMER 1)		
609	2A	*	K29-4200-03	KNOB(TUNING/CHARACTER,BAND)		
A			N89-3008-45	BINDING HEAD TAPTITE SCREW		
B			N89-3008-46	BINDING HEAD TAPTITE SCREW		
611	1A		T90-0174-05	LOOP ANTENNA		
612	1A		T90-0175-05	T TYPE ANTENNA		
613	1A		T90-0177-05	ANTENNA ADAPTOR		
				T-85L (FRANCE MADE)		
601	1B		A01-1799-01	METALLIC CABINET		
602	2A	*	A60-0086-01	PANEL		
603	2A	*	B10-1862-03	FRONT GLASS		
-			B46-0139-03	WARRANTY CARD		
-		*	H10-5222-02	POLYSTYRENE FOAMED FIXTURE(L)		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No.1

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
				T-85 (JAPAN MADE)		
601	1B	*	A01-1799-01	METALLIC CABINET		
602	2A	*	A60-0085-01	PANEL		
603	2A	*	B10-1862-03	FRONT GLASS	X	
-			B46-0096-23	WARRANTY CARD		
-		*	H10-5157-02	POLYSTYRENE FOAMED FIXTURE(L)		
-		*	H10-5158-02	POLYSTYRENE FOAMED FIXTURE(R)		
-			H25-0224-04	PROTECTION BAG (800X400X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H50-0117-04	ITEM CARTON CASE		
604	3B		J02-0370-05	FOOT(REAR)		
605	3A		J02-1040-05	FOOT(FRONT)		
606	1A		J19-2815-04	ANTENNA HOLDER		
607	2A	*	K29-4198-02	KNOB(CHAR.,DISPLAY,1-0)		
608	2A	*	K29-4199-03	KNOB(ADJUST,O.T.T.,AI TIMER 1)		
609	2A	*	K29-4200-03	KNOB(TUNING/CHARACTER,BAND)		
A			N89-3008-45	BINDING HEAD TAPTITE SCREW		
B			N89-3008-46	BINDING HEAD TAPTITE SCREW		
611	1A		T90-0173-05	LOOP ANTENNA		
611	1A		T90-0174-05	LOOP ANTENNA		
612	1A		T90-0176-05	T TYPE ANTENNA		
				T-85 (SINGAPORE MADE)		
601	1B	*	A01-1887-11	METALLIC CABINET		
602	2A	*	A60-0088-01	PANEL		
603	2A	*	B10-1862-03	FRONT GLASS	X	
-			B46-0096-23	WARRANTY CARD		
-		*	H10-5224-02	POLYSTYRENE FOAMED FIXTURE(L)		
-		*	H10-5225-02	POLYSTYRENE FOAMED FIXTURE(R)		
-			H25-0224-04	PROTECTION BAG (800X400X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H50-0120-04	ITEM CARTON CASE		
604	3B		J02-0370-05	FOOT(REAR)		
605	3A		J02-1040-05	FOOT(FRONT)		
606	1A		J19-2815-04	ANTENNA HOLDER		
607	2A	*	K29-4198-02	KNOB(CHAR.,DISPLAY,1-0)		
608	2A	*	K29-4199-03	KNOB(ADJUST,O.T.T.,AI TIMER 1)		
609	2A	*	K29-4200-03	KNOB(TUNING/CHARACTER,BAND)		
A			N89-3008-45	BINDING HEAD TAPTITE SCREW		
B			N89-3008-46	BINDING HEAD TAPTITE SCREW		
611	1A		T90-0174-05	LOOP ANTENNA		
612	1A		T90-0175-05	T TYPE ANTENNA		
				T-85L (JAPAN MADE)		
601	1B	*	A01-1799-01	METALLIC CABINET		
602	2A	*	A60-0086-01	PANEL		
603	2A	*	B10-1862-03	FRONT GLASS	E	
-			B46-0122-13	WARRANTY CARD	T	
-			B46-0143-13	WARRANTY CARD		
-		*	H10-5157-02	POLYSTYRENE FOAMED FIXTURE(L)		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

* New Parts
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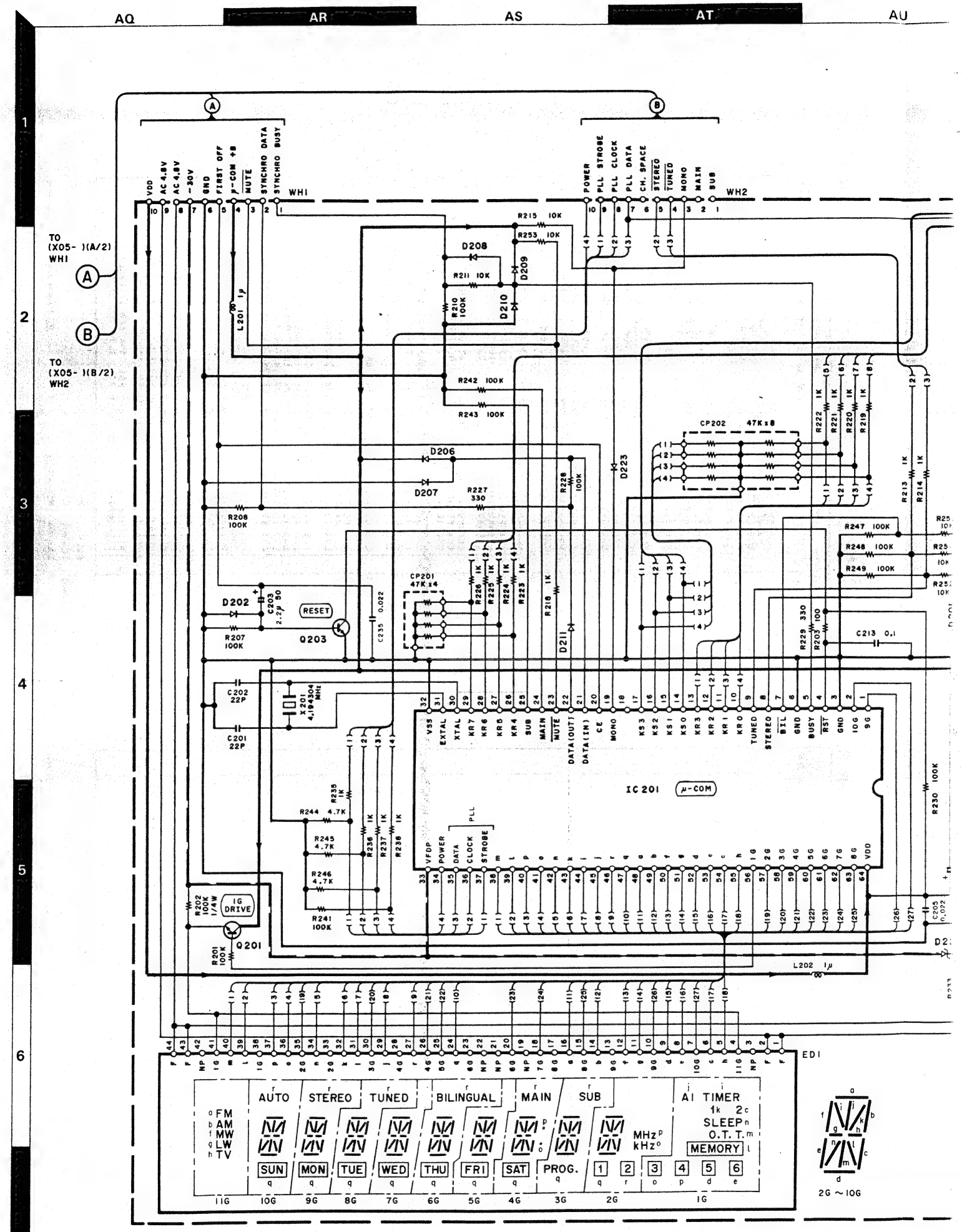
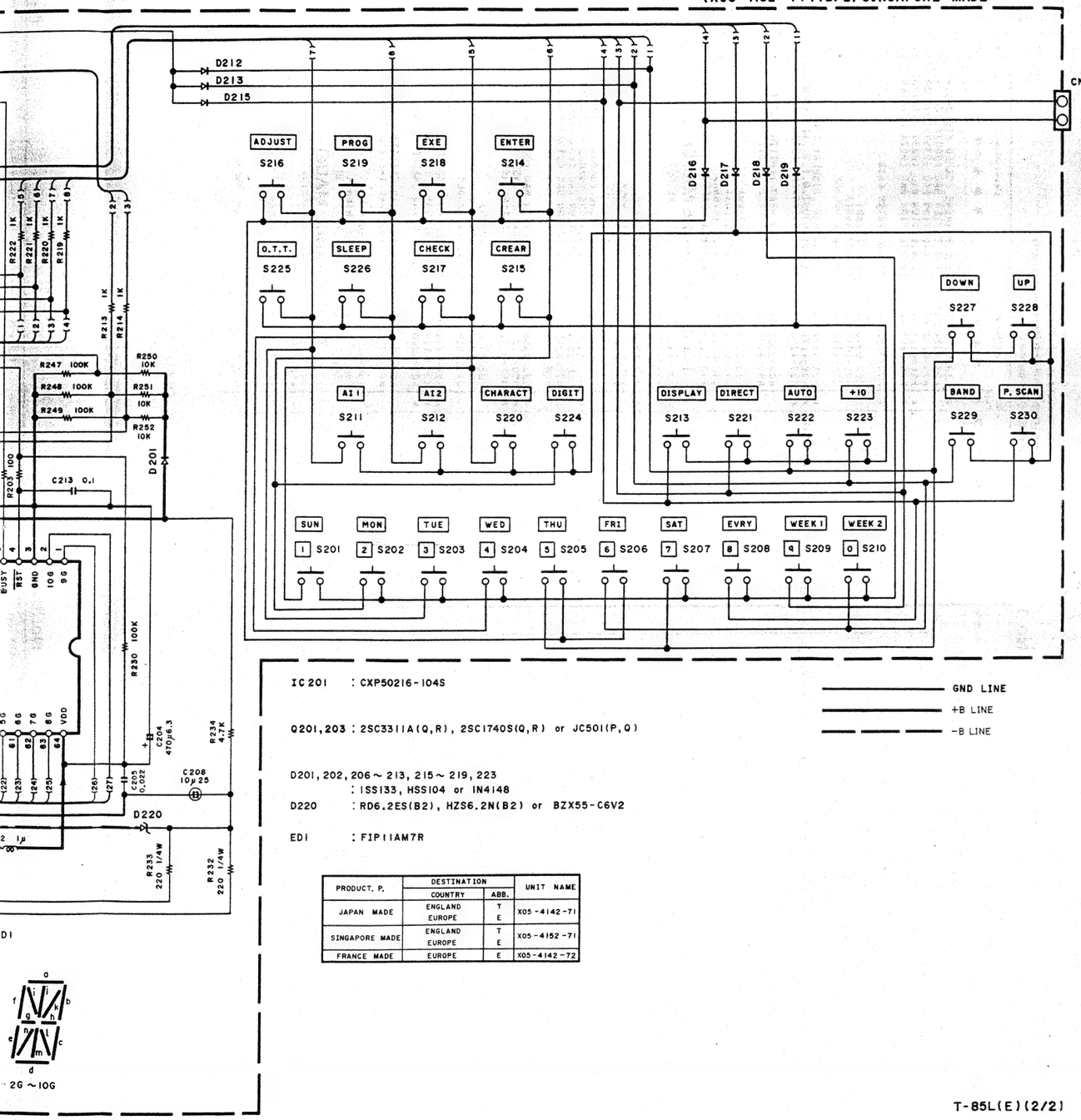

AQ
AR
AS
AT
AU
TO (X05-1)(A/2) WH1
TO (X05-1)(B/2) WH2
WH1
WH2
VDD
AC 4.8V
AC 4.8V
-30V
GND
FIRST OFF
μ-COM +B
MUTE
SYNCHRO DATA
SYNCHRO BUSY
POWER
PLL STROBE
PLL CLOCK
PLL DATA
CH. SPACE
STEREO
TUNED
MONO
MAIN
SUB
R215 10K
R253 10K
D208
D209
R211 10K
R210 100K
D210
L201 1μ
R242 100K
R243 100K
D206
D207
R227 330
R208 100K
CP202 47K x 8
R222 1K
R221 1K
R220 1K
R219 1K
R213 1K
R214 1K
D223
R228 100K
R247 100K
R248 100K
R249 100K
CP201 47K x 4
R226 1K
R225 1K
R224 1K
R223 1K
R218 1K
D211
D202
C203 2.2μ 50
RESET
Q203
R207 100K
C235 0.022
R229 330
R203 100
C213 0.1
C202 22P
C201 22P
X201 4.194304 MHz
IC 201
μ-COM
VSS
EXTAL
XTAL
KR7
KR6
KR5
KR4
SUB
MAIN
MUTE
DATA(OUT)
DATA(IN)
CE
MONO
KS3
KS2
KS1
KS0
KR3
KR2
KR1
KR0
TUNED
STEREO
BIL
GND
BUSY
RST
GND
IOG
9G
VDD
VFDP
POWER
DATA
CLOCK
STROBE
PLL
R235 1K
R236 1K
R237 1K
R238 1K
R244 4.7K
R245 4.7K
R246 4.7K
R241 100K
R230 100K
R202 100K 1/4W
1G DRIVE
Q201
R201 100K
C205 0.022
L202 1μ
EDI
AUTO
STEREO
TUNED
BILINGUAL
MAIN
SUB
AI TIMER
SLEEP
O.T.T.
MEMORY
FM
AM
MW
LW
TV
MHz
kHz
SUN
MON
TUE
WED
THU
FRI
SAT
PROG.
1
2
3
4
5
6
11G
10G
9G
8G
7G
6G
5G
4G
3G
2G
1G
2G ~ 10G

(X05-4142-XX)(B/2) JAPAN MADE, FRANCE MADE
(X05-4152-71)(B/2) SINGAPORE MADE



IC201 : CXP50216-104S

Q201,203 : 2SC3311A(Q,R), 2SC1740S(Q,R) or JC501(P,Q)

D201,202,206~213,215~219,223
: 1SS133, HSS104 or 1N4148

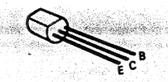
D220 : RD6.2ES(B2), HZS6.2N(B2) or BZX55-C6V2

ED1 : FIP11AM7R

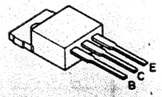
GND LINE
+B LINE
-B LINE

PRODUCT. P.	DESTINATION		UNIT NAME
	COUNTRY	ABB.	
JAPAN MADE	ENGLAND	T	X05-4142-71
	EUROPE	E	
SINGAPORE MADE	ENGLAND	T	X05-4152-71
	EUROPE	E	
FRANCE MADE	EUROPE	E	X05-4142-72

T-85L(E)(2/2)



JA101
JC501
2SC1845
2SC1923
2SC2003
2SD1302



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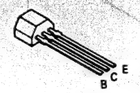

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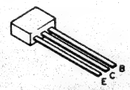
2SC1740S



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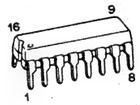
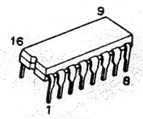
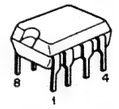
2SC3311A



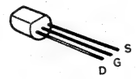
LM7001



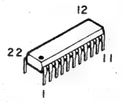
AN7470



BA10393



2SK163
2SK364



LA1265

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y07-3462-71

T-85L

KENWOOD

T-85/85L

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No.3

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
-		*	H10-5223-02	POLYSTYRENE FOAMED FIXTURE(R)		
-			H25-0224-04	PROTECTION BAG (800X400X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
-		*	H50-0119-04	ITEM CARTON CASE		
604	3B		J02-0370-05	FOOT(REAR)		
605	3A		J02-1040-05	FOOT(FRONT)		
606	1A		J19-2815-04	ANTENNA HOLDER		
607	2A	*	K29-4198-02	KNOB(CHAR.,DISPLAY,1-0)		
608	2A	*	K29-4199-03	KNOB(ADJUST,O.T.T.,AI TIMER 1)		
609	2A	*	K29-4200-03	KNOB(TUNING/CHARACTER,BAND)		
A			N89-3008-45	BINDING HEAD TAPTITE SCREW		
B			N89-3008-46	BINDING HEAD TAPTITE SCREW		
610	1A		T90-0153-05	LOOP ANTENNA		
612	1A		T90-0176-05	T TYPE ANTENNA		
613	1A		T90-0177-05	ANTENNA ADAPTOR		
T-85 TUNER UNIT (X05-4140-20)						
C1 -4			CK45FF1H103Z	CERAMIC 0.010UF Z		
C5			CE04KW1C470M	ELECTRO 47UF 16WV		
C6			C91-0769-05	CERAMIC 0.01UF K		
C7			CK45FF1H103Z	CERAMIC 0.010UF Z		
C8			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C9			CC45FSL1H101J	CERAMIC 100PF J		
C10			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C11			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C12			CK45FF1H103Z	CERAMIC 0.010UF Z		
C13			CQ92FM1H153J	MYLAR 0.015UF J		
C14 ,15			CK45FF1H223Z	CERAMIC 0.022UF Z		
C16			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C17			CK45FF1H223Z	CERAMIC 0.022UF Z		
C18			CE04KW1V100M	ELECTRO 10UF 35WV		
C19			CK45FF1H223Z	CERAMIC 0.022UF Z		
C20			CE04KW1V100M	ELECTRO 10UF 35WV		
C21			CE04KW1C101M	ELECTRO 100UF 16WV		
C22			CK45FB1H471K	CERAMIC 470PF K		
C23			CF92FV1H473J	MF 0.047UF J		
C24			CC93FCH1H471J	CERAMIC 470PF J		
C25 ,26			CC45FSL1H151J	CERAMIC 150PF J		
C27 ,28			CQ92FM1H123J	MYLAR 0.012UF J		
C29 ,30			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C31			CK45FF1H103Z	CERAMIC 0.010UF Z		
C32			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C33			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C34			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C41 ,42			CC45FCH1H220J	CERAMIC 22PF J		
C43 -45			CK45FB1H471K	CERAMIC 470PF K		
C46			CK45FF1H103Z	CERAMIC 0.010UF Z		
C47			C91-0769-05	CERAMIC 0.01UF K		
C48			CF92FV1H273J	MF 0.027UF J		
C49			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C50			CE04KW1C470M	ELECTRO 47UF 16WV		
C51			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C52			CE04KW1A470M	ELECTRO 47UF 10WV		
C56			CC45FSL1H220J	CERAMIC 22PF J		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

⚠ indicates safety critical components.

* New Parts
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Teile ohne Parts No. werden nicht geliefert.

No.4

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C106			CE04KW1C470M	ELECTRO 47UF 16WV		
C107			CK45FF1H223Z	CERAMIC 0.022UF Z		
C135,136		*	CQ92FM1H752J	MYLAR 7500PF J	M	
C137			C91-0769-05	CERAMIC 0.01UF K		
C201,202			CC45FCH1H220J	CERAMIC 22PF J		
C203			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C204			CE04KW0J471M	ELECTRO 470UF 6.3WV		
C205			C91-0085-05	CERAMIC 0.022UF N		
C207			C90-1827-05	BACKUP 0.047F 5.5WV		
C208			C90-1332-05	NP-ELEC 10UF 25WV		
C213			CF92FV1H104J	MF 0.10UF J		
C235			C91-0085-05	CERAMIC 0.022UF N		
C301			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C302			CE04KW1A470M	ELECTRO 47UF 10WV		
C303			CE04DW1C471M	ELECTRO 470UF 16WV		
C304			CE04KW1E221M	ELECTRO 220UF 25WV		
C309			CE04KW1H101M	ELECTRO 100UF 50WV		
C310			CE04KW1H221M	ELECTRO 220UF 50WV		
C311			CE04KW1H101M	ELECTRO 100UF 50WV		
C312			CE04KW1V222M	ELECTRO 2200UF 35WV		
C314			CE04KW1H331M	ELECTRO 330UF 50WV		
C317			CK45FF1H103Z	CERAMIC 0.010UF Z		
C318,319			CC45FSL1H221J	CERAMIC 220PF J		
C320			CE04KW1V100M	ELECTRO 10UF 35WV		
C321			CE04KW1V220M	ELECTRO 22UF 35WV		
C323			CE04KW1A471M	ELECTRO 470UF 10WV		
C324			CK45FF1H103Z	CERAMIC 0.010UF Z		
C325,326			C90-1839-05	NP-ELEC 120UF 42WV		
614	2B	*	E30-2667-05	CORD WITH CONNECTOR(WH3)		
J1	3B		E20-0476-05	LOCK TERMINAL BOARD(ANTENNA)		
J2	2B		E13-0235-05	PHONO JACK (2P)(OUTPUT)		
J3	2B		E08-0312-05	RECTANGULAR RECEPTACLE(S.CONT)		
CF1 ,2			L72-0531-05	CERAMIC FILTER		
CF3			L72-0096-05	CERAMIC FILTER		
L1			L30-0488-05	AM IFT		
L2			L30-0439-25	FM IFT (DISCRIMINATOR)		
L8			L40-1091-17	SMALL FIXED INDUCTOR(1.0UH)		
L104			L39-0189-05	COMBINATION COIL		
L106			L40-1091-17	SMALL FIXED INDUCTOR(1.0UH)		
L201,202			L40-1091-17	SMALL FIXED INDUCTOR(1.0UH)		
X1			L77-1122-05	CRYSTAL RESONATOR(7.2MHz)		
X201			L77-1176-05	CRYSTAL RESONATOR(4.194304MHz)		
CP201			R90-0487-05	MULTI-COMP 47KX4 J 1/6W		
CP202			R90-0804-05	MULTI-COMP 47KX8 J 1/4W		
R53			RS14DB3D221J	FL-PROOF RS 220 J 2W		
R306			RS14KB3A221J	FL-PROOF RS 220 J 1W		
R307,308			RS14DB3D151J	FL-PROOF RS 150 J 2W		
R322			RS14DB3D6R8J	FL-PROOF RS 6.8 J 2W		
R323			RS14DB3A151J	FL-PROOF RS 150 J 1W		
R324			RS14DB3A222J	FL-PROOF RS 2.2K J 1W		
R329			RS14DB3D102J	FL-PROOF RS 1.0K J 2W		
R330-335			RS14DB3D121J	FL-PROOF RS 120 J 2W		
VR1			R12-3687-05	TRIMMING POT. 33K (FM T-LEVEL)		
VR2 ,3			R12-1619-05	TRIMMING POT. 4.7K(VCO,AM T-L)		

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× New Parts
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No.5

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
S101	2B		S31-2094-05	SLIDE SWITCH(DE-EM,CH.SPACE)	M	
S201-230	2A,2B		S40-1064-05	PUSH SWITCH		
D2			HSS104	DIODE		
D2			1SS133	DIODE		
D3			HZS5.1N(B2)	ZENER DIODE		
D3			RD5.1ES(B2)	ZENER DIODE		
D4			HSS104	DIODE		
D4			1SS133	DIODE		
D111,112			HSS104	DIODE		
D111,112			1SS133	DIODE		
D201,202			HSS104	DIODE		
D201,202			1SS133	DIODE		
D203			HZS3.9N(B2)	ZENER DIODE		
D203			RD3.9ES(B2)	ZENER DIODE		
D204			HSS104	DIODE		
D204			1SS133	DIODE		
D206-212			HSS104	DIODE		
D206-212			1SS133	DIODE		
D213			HSS104	DIODE	X	
D213			1SS133	DIODE	X	
D214			HSS104	DIODE	M	
D214			1SS133	DIODE	M	
D216-219			HSS104	DIODE		
D216-219			1SS133	DIODE		
D220			HZS6.2N(B2)	ZENER DIODE		
D220			RD6.2ES(B2)	ZENER DIODE		
D221			HSS104	DIODE		
D221			1SS133	DIODE		
D222			HSS104	DIODE	M	
D222			1SS133	DIODE	M	
D223			HSS104	DIODE		
D223			1SS133	DIODE		
D301			HZS3.3N(B2)	ZENER DIODE		
D301			RD3.3ES(B2)	ZENER DIODE		
D302			HZS6.2N(B2)	ZENER DIODE		
D302			RD6.2ES(B2)	ZENER DIODE		
D303			HZS15N(B)	ZENER DIODE		
D303			RD15ES(B)	ZENER DIODE		
D304			S5688B	DIODE		
D304			1SR139-100	DIODE		
D307-312			S5688B	DIODE		
D307-312			1SR139-100	DIODE		
D313-316			HSS104	DIODE		
D313-316			1SS133	DIODE		
D318,319			S5688B	DIODE		
D318,319			1SR139-100	DIODE		
ED1	1A		FIP11AM7R	FLUORESCENT INDICATOR TUBE		
IC1			LA1265	IC(FM/AM TUNER)		
IC2			AN7470	IC(FM MPX)		
IC3			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
IC201		*	CXP50216-104S	IC(MICROPROCESSOR)		
IC202			BA10393	IC(DUAL COMPALATOR)		
Q1			2SC1923(R,O)	TRANSISTOR		
Q2			2SC1845(F,E)	TRANSISTOR		

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No.6

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
Q3			2SC1740S(Q,R)	TRANSISTOR		
Q3			2SC3311A(Q,R)	TRANSISTOR		
Q102			2SA1309A(Q,R)	TRANSISTOR		
Q102			2SA933S(Q,R)	TRANSISTOR		
Q104			2SA1309A(Q,R)	TRANSISTOR		
Q104			2SA933S(Q,R)	TRANSISTOR		
Q107,108			2SC1740S(Q,R)	TRANSISTOR	M	
Q107,108			2SC3311A(Q,R)	TRANSISTOR	M	
Q201			2SC1740S(Q,R)	TRANSISTOR		
Q201			2SC3311A(Q,R)	TRANSISTOR		
Q202			2SA1309A(Q,R)	TRANSISTOR	M	
Q202			2SA933S(Q,R)	TRANSISTOR	M	
Q203			2SC1740S(Q,R)	TRANSISTOR		
Q203			2SC3311A(Q,R)	TRANSISTOR		
Q301,302			2SD1302(S,T)	TRANSISTOR		
Q303			2SA1309A(Q,R)	TRANSISTOR		
Q303			2SA933S(Q,R)	TRANSISTOR		
Q304			2SC2003(L,K)	TRANSISTOR		
Q305			2SD1266(Q,P)	TRANSISTOR		
Q307			2SA1309A(Q,R)	TRANSISTOR		
Q307			2SA933S(Q,R)	TRANSISTOR		
Q308			2SC1740S(Q,R)	TRANSISTOR		
Q308			2SC3311A(Q,R)	TRANSISTOR		
DT1	3B		W02-1042-05	FM FRONT-END ASSY		
T-85L TUNER UNIT (X05-4142-71)						
C1 -4			CK45FF1H103Z	CERAMIC 0.010UF Z		
C5			CE04KW1C470M	ELECTRO 47UF 16WV		
C6			C91-0769-05	CERAMIC 0.01UF K		
C7			CK45FF1H103Z	CERAMIC 0.010UF Z		
C8			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C9			CC45FSL1H101J	CERAMIC 100PF J		
C10			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C11			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C12			CK45FF1H103Z	CERAMIC 0.010UF Z		
C13			CQ92FM1H153J	MYLAR 0.015UF J		
C14 ,15			CK45FF1H223Z	CERAMIC 0.022UF Z		
C16			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C17			CK45FF1H223Z	CERAMIC 0.022UF Z		
C18			CE04KW1V100M	ELECTRO 10UF 35WV		
C19			CK45FF1H223Z	CERAMIC 0.022UF Z		
C20			CE04KW1V100M	ELECTRO 10UF 35WV		
C21			CE04KW1C101M	ELECTRO 100UF 16WV		
C22			CK45FB1H471K	CERAMIC 470PF K		
C23			CF92FV1H473J	MF 0.047UF J		
C24			CC93FCH1H471J	CERAMIC 470PF J		
C25 ,26			CK45FB1H102K	CERAMIC 1000PF K		
C27 ,28			CQ92FM1H472J	MYLAR 4700PF J		
C29 ,30			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C31			CK45FF1H103Z	CERAMIC 0.010UF Z		
C32			CE04KW1HR47M	ELECTRO 0.47UF 50WV		
C33			CE04KW1H3R3M	ELECTRO 3.3UF 50WV		
C34			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C35			CK45FB1H471K	CERAMIC 470PF K		
C36			CQ92FM1H152J	MYLAR 1500PF J		

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T-85/85L

PARTS LIST

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No.7

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C37			CQ92FM1H132J	MYLAR 1300PF J		
C38			CC45FSL1H121J	CERAMIC 120PF J		
C39			CC45FSL1H271J	CERAMIC 270PF J		
C40			CC45FSL1H221J	CERAMIC 220PF J		
C41 ,42			CC45FCH1H220J	CERAMIC 22PF J		
C43 -45			CK45FB1H471K	CERAMIC 470PF K		
C46			CK45FF1H103Z	CERAMIC 0.010UF Z		
C47			C91-0769-05	CERAMIC 0.01UF K		
C48			CF92FV1H273J	MF 0.027UF J		
C49			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C50			CE04KW1C470M	ELECTRO 47UF 16WV		
C51			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C52			CE04KW1A470M	ELECTRO 47UF 10WV		
C53 ,54			CE04KW1C220M	ELECTRO 22UF 16WV		
C56			CC45FSL1H220J	CERAMIC 22PF J		
C106			CE04KW1C470M	ELECTRO 47UF 16WV		
C107,108			CK45FF1H223Z	CERAMIC 0.022UF Z		
C109,110			C91-0085-05	CERAMIC 0.022UF N		
C111-113			CK45FF1H223Z	CERAMIC 0.022UF Z		
C114			C91-0085-05	CERAMIC 0.022UF N		
C137			C91-0769-05	CERAMIC 0.01UF K		
C170			C91-0745-05	CERAMIC 100PF K		
C171			C91-0737-05	CERAMIC 47PF J		
C201,202			CC45FCH1H220J	CERAMIC 22PF J		
C203			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C204			CE04KW0J471M	ELECTRO 470UF 6.3WV		
C205			C91-0085-05	CERAMIC 0.022UF N		
C207			C90-1827-05	BACKUP 0.047F 5.5WV		
C208			C90-1332-05	NP-ELEC 10UF 25WV		
C213			CF92FV1H104J	MF 0.10UF J		
C235			C91-0085-05	CERAMIC 0.022UF N		
C301			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C302			CE04KW1A470M	ELECTRO 47UF 10WV		
C303			CE04DW1C471M	ELECTRO 470UF 16WV		
C304			CE04KW1E221M	ELECTRO 220UF 25WV		
C309			CE04KW1H101M	ELECTRO 100UF 50WV		
C310			CE04KW1H221M	ELECTRO 220UF 50WV		
C311			CE04KW1H101M	ELECTRO 100UF 50WV		
C312			CE04KW1V222M	ELECTRO 2200UF 35WV		
C314			CE04KW1H331M	ELECTRO 330UF 50WV		
C315,316			C91-0749-05	CERAMIC 220PF K		
C317			CK45FF1H103Z	CERAMIC 0.010UF Z		
C318,319			CC45FSL1H221J	CERAMIC 220PF J		
C320			CE04KW1V100M	ELECTRO 10UF 35WV		
C321			CE04KW1V220M	ELECTRO 22UF 35WV		
C323			CE04KW1A471M	ELECTRO 470UF 10WV		
C324			CK45FF1H103Z	CERAMIC 0.010UF Z		
C325,326			C90-1839-05	NP-ELEC 120UF 42WV		
614	2B	×	E30-2667-05	CORD WITH CONNECTOR(WH3)		
J1	3B		E20-0321-05	LOCK TERMINAL BOARD(ANTENNA)		
J2	2B		E13-0235-05	PHONO JACK (2P)(OUTPUT)		
J3	2B		E08-0312-05	RECTANGULAR RECEPTACLE(S.CONT)		
CF1 ,2			L72-0536-05	CERAMIC FILTER		
CF3			L72-0096-05	CERAMIC FILTER		

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No.8

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
L1			L30-0488-05	AM IFT		
L2			L30-0439-25	FM IFT (DISCRIMINATOR)		
L3			L40-1021-14	SMALL FIXED INDUCTOR(1.0mH,K)		
L4			L40-5625-29	SMALL FIXED INDUCTOR(5.6mH,J)		
L5			L40-6825-29	SMALL FIXED INDUCTOR(6.8mH,J)		
L6 ,7			L79-0790-05	LC FILTER		
L8			L40-1091-17	SMALL FIXED INDUCTOR(1.0UH)		
L104			L39-0195-05	COMBINATION COIL		
L105			L39-0192-05	COMBINATION COIL		
L106			L40-1091-17	SMALL FIXED INDUCTOR(1.0UH)		
L201,202			L40-1091-17	SMALL FIXED INDUCTOR(1.0UH)		
X1			L77-1122-05	CRYSTAL RESONATOR(7.2MHz)		
X201			L77-1176-05	CRYSTAL RESONATOR(4.194304MHz)		
CP201			R90-0487-05	MULTI-COMP 47KX4 J 1/6W		
CP202			R90-0804-05	MULTI-COMP 47KX8 J 1/4W		
R53			RS14DB3D221J	FL-PROOF RS 220 J 2W		
R306			RS14KB3A221J	FL-PROOF RS 220 J 1W		
R307,308			RS14DB3D151J	FL-PROOF RS 150 J 2W		
R322			RS14DB3D6R8J	FL-PROOF RS 6.8 J 2W		
R323			RS14DB3A151J	FL-PROOF RS 150 J 1W		
R324			RS14DB3A222J	FL-PROOF RS 2.2K J 1W		
R329			RS14DB3D102J	FL-PROOF RS 1.0K J 2W		
R330-335			RS14DB3D121J	FL-PROOF RS 120 J 2W		
VR1			R12-3130-05	TRIMMING POT. 33K (FM T-LEVEL)		F
VR1			R12-3687-05	TRIMMING POT. 33K (FM T-LEVEL)		
VR2 ,3			R12-1089-05	TRIMMING POT. 4.7K(VCO,AM T-L)		F
VR2 ,3			R12-1619-05	TRIMMING POT. 4.7K(VCO,AM T-L)		
VR4			R12-5060-05	TRIMMING POT. 220K(SEPARATION)		F
VR4			R12-5652-05	TRIMMING POT. 220K(SEPARATION)		
S201-230	2A,2B		S40-1064-05	PUSH SWITCH		
D1 ,2			HSS104	DIODE		
D1 ,2			1N4148	DIODE		F
D1 ,2			1SS133	DIODE		
D3			BZX55-C5V1	ZENER DIODE		F
D3			HZS5.1N(B2)	ZENER DIODE		
D3			RD5.1ES(B2)	ZENER DIODE		
D4			HSS104	DIODE		
D4			1N4148	DIODE		F
D4			1SS133	DIODE		
D101			HSS104	DIODE		
D101			1N4148	DIODE		F
D101			1SS133	DIODE		
D103			HSS104	DIODE		
D103			1N4148	DIODE		F
D103			1SS133	DIODE		
D109-116			HSS104	DIODE		
D109-116			1N4148	DIODE		F
D109-116			1SS133	DIODE		
D201,202			HSS104	DIODE		
D201,202			1N4148	DIODE		F
D201,202			1SS133	DIODE		
D203			BZX55-C3V9	ZENER DIODE		F
D203			HZS3.9N(B2)	ZENER DIODE		

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F:FRANCE MADE

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PARTS LIST

T-85/85L

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No.9

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
D203			RD3.9ES(B2)	ZENER DIODE		
D204			HSS104	DIODE		
D204			1N4148	DIODE		F
D204			1SS133	DIODE		
D206-213			HSS104	DIODE		
D206-213			1N4148	DIODE		F
D206-213			1SS133	DIODE		
D215-219			HSS104	DIODE		
D215-219			1N4148	DIODE		F
D215-219			1SS133	DIODE		
D220			BZX55-C6V2	DIODE		F
D220			HZS6.2N(B2)	ZENER DIODE		
D220			RD6.2ES(B2)	ZENER DIODE		
D221			HSS104	DIODE		
D221			1N4148	DIODE		F
D221			1SS133	DIODE		
D223			HSS104	DIODE		
D223			1N4148	DIODE		F
D223			1SS133	DIODE		
D301			BZX55-C3V3	ZENER DIODE		F
D301			HZS3.3N(B2)	ZENER DIODE		
D301			RD3.3ES(B2)	ZENER DIODE		
D302			BZX55-C6V2	DIODE		F
D302			HZS6.2N(B2)	ZENER DIODE		
D302			RD6.2ES(B2)	ZENER DIODE		
D303			BZX55-C15	DIODE		F
D303			HZS15N(B)	ZENER DIODE		
D303			RD15ES(B)	ZENER DIODE		
D304			S5688B	DIODE		
D304			1N4004	DIODE		F
D304			1SR139-100	DIODE		
D307-312			S5688B	DIODE		
D307-312			1N4004	DIODE		F
D307-312			1SR139-100	DIODE		
D313-316			HSS104	DIODE		
D313-316			1N4148	DIODE		F
D313-316			1SS133	DIODE		
D318,319			S5688B	DIODE		
D318,319			1N4004	DIODE		F
D318,319			1SR139-100	DIODE		
ED1	1A		FIP11AM7R	FLUORESCENT INDICATOR TUBE		
IC1			LA1265	IC(FM/AM TUNER)		
IC2			AN7470	IC(FM MPX)		
IC3			LM7001	IC(PLL FREQUENCY SYNTHESIZER)		
IC201		*	CXP50216-104S	IC(MICROPROCESSOR)		
IC202			BA10393	IC(DUAL COMPALATOR)		
Q1			2SC1923(R,O)	TRANSISTOR		
Q2			2SC1845(F,E)	TRANSISTOR		
Q3 ,4			JC501(P,Q)	TRANSISTOR		F
Q3 ,4			2SC1740S(Q,R)	TRANSISTOR		
Q3 ,4			2SC3311A(Q,R)	TRANSISTOR		
Q5			2SK163(L,M)	FET		
Q5			2SK364(GR,BL)	FET		
Q102-104			JA101(P,Q)	TRANSISTOR		F
Q102-104			2SA1309A(Q,R)	TRANSISTOR		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

F:FRANCE MADE

⚠ indicates safety critical components.

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No.10

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
Q102-104			2SA933S(Q,R)	TRANSISTOR		
Q105,106			JC501(P,Q)	TRANSISTOR		F
Q105,106			2SC1740S(Q,R)	TRANSISTOR		
Q105,106			2SC3311A(Q,R)	TRANSISTOR		
Q201			JC501(P,Q)	TRANSISTOR		F
Q201			2SC1740S(Q,R)	TRANSISTOR		
Q201			2SC3311A(Q,R)	TRANSISTOR		
Q203			JC501(P,Q)	TRANSISTOR		F
Q203			2SC1740S(Q,R)	TRANSISTOR		
Q203			2SC3311A(Q,R)	TRANSISTOR		
Q301,302			2SD1302(S,T)	TRANSISTOR		
Q303			JA101(P,Q)	TRANSISTOR		F
Q303			2SA1309A(Q,R)	TRANSISTOR		
Q303			2SA933S(Q,R)	TRANSISTOR		
Q304			2SC2003(L,K)	TRANSISTOR		
Q305			2SD1266(Q,P)	TRANSISTOR		
Q307			JA101(P,Q)	TRANSISTOR		F
Q307			2SA1309A(Q,R)	TRANSISTOR		
Q307			2SA933S(Q,R)	TRANSISTOR		
Q308			JC501(P,Q)	TRANSISTOR		F
Q308			2SC1740S(Q,R)	TRANSISTOR		
Q308			2SC3311A(Q,R)	TRANSISTOR		
DT1	3B		W02-1041-05	FM FRONT-END ASSY		

L:Scandinavia K:USA P:Canada
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⚠ indicates safety critical components.

T-85/85L

SPECIFICATIONS

T-85

FM tuner section

Tuning frequency range .....87.5 MHz ~ 108 MHz
Usable sensitivity (IHF at 75 Ω).....0.95 μV/10.8 dBf
Total harmonic distortion (at 1 kHz, 65 dBf input)
MONO 0.4%
STEREO 0.5%
Signal to noise ratio (at 1 kHz, 65 dBf input)
MONO .....78 dB
STEREO .....72 dB
Stereo separation (at 1 kHz) .....40 dB
Alternate channel selectivity
(±400 kHz) .....50 dB
Frequency response
(30 Hz ~ 15 kHz) .....+0.5 dB, −3.5 dB
Output level/Impedance
(at 75 kHz dev.) .....0.6 V/3.3 kΩ

AM tuner section

Tuning frequency range
531 kHz ~ 1,602 kHz .....9 kHz step
530 kHz ~ 1,610 kHz .....10 kHz step
Usable sensitivity .....14 μV/500 μV/m
Signal to noise ratio
(at 30% mod. 1 mV input) .....48 dB

General

Dimension .....W: 360 mm
H: 89 mm
D: 353 mm
Weight .....3.0 kg

T-85L

FM tuner section

Tuning frequency range .....87.5 MHz ~ 108 MHz
Usable sensitivity (DIN at 75 Ω)
MONO ..... 0.6 μV
STEREO ..... 22 μV
Total harmonic distortion (DIN at 1 kHz, 65.2 dBf input)
MONO 0.2%
STEREO 0.8%
Signal to noise ratio (DIN weighted at 1 kHz, 65.2 dBf input)
MONO .....68 dB
STEREO .....63 dB
Stereo separation (DIN at 1 kHz) ....42 dB
Alternate channel selectivity
(DIN ±300 kHz) .....64 dB
Frequency response
(30 Hz ~ 15 kHz) .....+0.5 dB, −3.5 dB
Output level/Impedance
(at 75 kHz dev.) .....0.6 V/3.3 kΩ

MW tuner section

Tuning frequency range .....531 kHz ~ 1,602 kHz
Usable sensitivity .....13 μV/500 μV/m
Signal to noise ratio
(at 30% mod. 1 mV input) .....49 dB

LW tuner section

Tuning frequency range .....153 kHz ~ 281 kHz
Usable sensitivity .....20 μV
Signal to noise ratio
(at 30% mod. 1 mV input) .....47 dB

General

Dimension .....W: 360 mm
H: 89 mm
D: 353 mm
Weight .....3.0 kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

KENWOOD strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Note:
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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